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Appendices

Appendix A: A cautionary note on comparisons of foreign direct investment

Comparisons of foreign direct investment (FDI) should be regarded with great caution. Some argue that they should not be used at all due to significantly differing methodologies. An analysis of methodological problems suggests that overall comparisons are, at a minimum, less useful than measurements of the trends — which in most data sources show recent Japanese investment increasing at a rapid rate while U.S. investment in the Asia-Pacific region has been relatively stagnant during the past decade, especially as measured in constant dollars.

Japanese FDI data is based on notifications to the Japanese Government of intent to carry out investment approved by the host government, whereas U.S. data from the Department of Commerce's *Survey of Current Business* is based on estimated capital flows and equity positions of U.S. firms and foreign affiliates. Thus Japanese data tends to be anticipatory and the methodology tends to overstate Japanese investment when compared to U.S. investment as measured by the more conservative U.S. method. Host government estimates, which often are based on approvals of proposed investment, tend to overstate both Japanese and U.S. investment.

In what is probably an extreme case of understating U.S. investment compared with Japanese FDI, the U.S. Commerce Department valued

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U.S. investment in the People's Republic of China (PRC) as of 1988 at only US\$310 million, versus US\$2.6 billion in approved investment estimated by the Chinese Government. (Recent disinvestment in China has brought U.S. equity down to under US\$300 million.) On the other hand, the Japanese Ministry of Finance estimate of US\$2 billion in cumulative notified Japanese FDI as of 31 March 1989 is nearly the same as the Chinese estimate of US\$2.1 billion.

Recipient countries vary widely in how they track foreign investment. Hong Kong doesn't keep overall data on foreign investment but conducts an annual voluntary survey on manufacturing investment — by admission an incomplete and imprecise process. The U.S. Survey of Current Business shows US\$594 million invested in manufacturing in Hong Kong as of 1988, versus an original cost estimate of US\$1.1 billion shown by the Hong Kong Government's annual report. Japanese data similarly underestimates investment by about half compared to the Hong Kong survey data — i.e. Japanese Ministry of Finance data shows US\$0.5 billion invested in manufacturing in Hong Kong as of 1988 versus US\$0.9 billion estimated by the Hong Kong Government.

While it may be safe to assume that the PRC and Hong Kong are atypical cases, individual country data tends to underscore the fact that if U.S. and Japanese cumulative investment were measured on the same basis, they would be somewhat closer to being equal. In terms of new investment, it seems much clearer that Japan is outdistancing the United States, though the extent of the gap is open to argument.

For a particularly scathing attack on FDI comparisons, see a paper by Eric D. Ramstetter of Kansai University, Osaka, "An Overview of Multinational Firms in Asia-Pacific Developing Economies: An Introduction to the Commonplace Ignorance", prepared for the Asian Productivity Organization/Institute for Economic Development and Policy Seminar on the Role of Foreign Direct Investment in Development, held in Seoul, Korea, 16–20 September 1991. Appendix B Japanese trade with Asia-Pacific countries, 1986–90 (In USS millions)

| | | | Im_{I} | Imports | | | | | Ex_{l} | Exports | | |
|-----------|--------|--------|----------|---------|--------|----------|--------|--------|----------|---------|--------|---------------------|
| | 1006 | 1007 | 0001 | 1020 | 1000 | % Change | 1086 | 10.87 | 1088 | 1020 | 1000 | % Change 1086 on |
| | 1900 | 1961 | 1300 | 1 202 | 1990 | 1200-20 | 1200 | 1201 | 1200 | 6061 | 1930 | 1200-10 |
| (0 | 12,608 | 19,027 | 25,014 | 27,137 | 25,944 | 105.8 | 30,286 | 39,804 | 49,820 | 52,756 | 56,688 | 87.2 |
| ng Kong | 1,080 | 1,577 | 2,111 | 2,215 | 2,172 | 101.1 | 7,214 | 8,947 | 11,708 | 11,528 | 13,080 | 81.3 |
| Singapore | 1,475 | 2,081 | 2,338 | 2,953 | 3,576 | 142.5 | 4,612 | 6,064 | 8,312 | 9,240 | 10,716 | 132.4 |
| th Korea | 5,334 | 8,172 | 11,827 | 12,997 | 11,712 | 119.6 | 10,558 | 13,344 | 15,443 | 16,565 | 17,460 | 65.4 |
| wan | 4,720 | 7,198 | 8,738 | 8,969 | 8,484 | 79.8 | 7,902 | 11,449 | 14,357 | 15,422 | 15,432 | 95.3 |
| AN (4) | 14,009 | 16,505 | 18,997 | 21,792 | 24,408 | 74.2 | 7,548 | 9,614 | 13,020 | 16,646 | 22,188 | 194.0 |
| onesia | 7,386 | 8,500 | 9,493 | 11,016 | 12,708 | 72.1 | 2,682 | 3,016 | 3,055 | 3,301 | 5,040 | 87.9 |
| Malaysia | 3,986 | 4,814 | 4,709 | 5,124 | 5,400 | 35.5 | 1,723 | 2,188 | 3,061 | 4,124 | 5,508 | 219.6 |
| lippines | 1,235 | 1,375 | 2,041 | 2,063 | 2,148 | 74.0 | 1,098 | 1,429 | 1,740 | 2,381 | 2,508 | 128.4 |
| Thailand | 1,402 | 1,816 | 2,754 | 3,589 | 4,152 | 196.2 | 2,045 | 2,982 | 5,164 | 6,840 | 9,132 | 346.6 |
| Market | 5,980 | 7,864 | 10,379 | 11,780 | 12,924 | 116.1 | 10,312 | 8,734 | 9,914 | 8,888 | 6,528 | - 36.7 |
| na (PRC) | 5,726 | 7,478 | 9,860 | 11, 140 | 12,024 | 110.0 | 9,936 | 8,336 | 9,482 | 8,522 | 6,132 | - 38.3 |
| th Korea | 169 | 240 | 323 | 295 | 300 | 77.3 | 185 | 216 | 239 | 197 | 180 | -2.6 |
| Vietnam | 84 | 145 | 196 | 346 | 009 | 614.3 | 191 | 181 | 193 | 169 | 216 | 13.2 |
| h Asia | 1,664 | 2,042 | 2,359 | 2,563 | 2,616 | 57.2 | 3,030 | 2,921 | 3,209 | 3,047 | 2,712 | - 10.5 |
| India | 1,309 | 1,546 | 1,806 | 1,974 | 2,076 | 58.6 | 2,119 | 1,976 | 2,083 | 2,018 | 1,704 | -19.6 |
| istan | 355 | 497 | 553 | 589 | 540 | 52.0 | 911 | 944 | 1,126 | 1,028 | 1,008 | 10.7 |

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Appendix B (Continued)

| | | | 1mr | Imports | | | | | [X] | <i>Exports</i> | | |
|-----------------------|----------|--------|--------|---------|--------|---------------------------------|--------|--------|--------|----------------|--------|---------------------|
| 19. | 1986 | 1987 | 1988 | 1989 | 1990 | <i>%</i> Change 1990 1986–90 | 1986 | 1987 | 1988 | 1989 | 1990 | % Change 1986-90 |
| Other Asia 1,5 | 1,578 | 1,388 | 1,471 | 1,458 | 1,632 | 3.4 | 1,247 | 1,111 | 1,069 | 1,087 | 1,164 | - 6.6 |
| Oceania 8,4 | 429 | 9,718 | 12,780 | 14,167 | 14,748 | 75.0 | 7,066 | 6,919 | 8,368 | 9,974 | 8,964 | 26.9 |
| Australia 7,(| 7,046 | 7,974 | 10,285 | 11,566 | 12,324 | 75.0 | 5,274 | 5,196 | 6,684 | 7,806 | 6,900 | 30.8 |
| and | 964 | 1,180 | 1,645 | 1,658 | 1,728 | 79.3 | 1,114 | 1,138 | 1,040 | 1,348 | 1,212 | 8.8 |
| s | 419 | 564 | 850 | 943 | 696 | 66.2 | 678 | 586 | 643 | 821 | 852 | 25.7 |
| Total Asia-Pacific | 44,268 5 | 56,544 | 71,000 | 78,898 | 82,272 | 85.9 | 59,488 | 69,103 | 85,400 | 92,399 | 98,244 | 65.2 |
| Reference Comparison | Ę | | | | | | | | | | | |
| U.S. 29,4 | 29,407 | 31,957 | 42,295 | 48,520 | 52,728 | | 81,886 | 84,992 | 90,264 | 93,718 | 90,888 | 11.0 |
| da | | 6,109 | 8,300 | 8,653 | 8,376 | 69.7 | 5,570 | 5,662 | 6,426 | 6,806 | 6,732 | 20.9 |
| OECD-Europe 18,342 | | 22,860 | 30,512 | 35,198 | 42,708 | 132.8 | 37,862 | 46,116 | 56,124 | 56,602 | 63,396 | 67.4 |

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Appendix C U.S. trade with Asia-Pacific countries, 1986–90 (In US\$ millions)

| | | | Im | Imports | | | | | Ex | Exports | | |
|-------------|--------|--------|--------|---------|--------|---------------------|--------|--------|--------|---------|--------|---------------------|
| | 1986 | 1987 | 1988 | 1989 | 1990 | % Change 1986-90 | 1986 | 1987 | 1988 | 1989 | 0661 | % Change 1986-90 |
| NIES | 46,136 | 1 | | 62,756 | 60,492 | | 18,290 | 23,546 | 34,880 | 38,458 | 40,740 | 122.7 |
| Hong Kong | 8,891 | | | 9,739 | 9,492 | | 3,030 | 3,983 | 5,690 | 6,304 | 6,840 | 125.7 |
| Singapore | 4,726 | | | 8,950 | 9,840 | 108.2 | 3,380 | 4,052 | 5,770 | 7,352 | 8,016 | 137.1 |
| South Korea | 12,730 | | | 19,742 | 18,492 | | 6,355 | 8,099 | 11,290 | 13,478 | 14,400 | 126.6 |
| Taiwan | 19,790 | 24,622 | 24,804 | 24,325 | 22,668 | | 5,525 | 7,412 | 12,131 | 11,323 | 11,484 | 107.9 |
| ASEAN (4) | 9,452 | 10,798 | 12,800 | 15,728 | 17,268 | | 4,974 | 5,807 | 7,040 | 8,630 | 10,776 | 116.6 |
| Indonesia | 3,312 | 3,394 | 3,188 | 3,542 | 3,324 | | 946 | 767 | 1,056 | 1,256 | 1,896 | 100.5 |
| Malaysia | 2,420 | 2,921 | 3,712 | 4,745 | 5,268 | | 1,729 | 1,896 | 2,140 | 2,875 | 3,420 | 97.8 |
| Philippines | 1,973 | 2,263 | 2,682 | 3,064 | 3,384 | 71.5 | 1,363 | 1,600 | 1,880 | 2,207 | 2,472 | 81.3 |
| Thailand | 1,747 | 2,220 | 3,218 | 4,378 | 5,292 | | 936 | 1,544 | 1,964 | 2,292 | 2,988 | 219.2 |
| Non-Market | | 6,294 | | 11,988 | 15,228 | ••• | 3,137 | 3,521 | 5,054 | 5,818 | 4,824 | 53.8 |
| China (PRC) | 4,771 | 6,294 | 8,513 | 11,988 | 15,228 | 219.2 | 3,107 | 3,497 | 5,039 | 5,807 | 4,812 | 54.9 |
| North Korea | | Ι | | Ι | Ι | | Ι | ļ | Ι | Ι | I | I |
| Vietnam | I | ŧ | I | I | | Ι | 30 | 24 | 16 | 11 | .012 | - 60.0 |
| South Asia | 2,609 | 2,933 | | 3,838 | 3,804 | | 2,366 | 2,197 | 3,592 | 3,599 | 3,624 | 53.1 |
| India | 2,284 | 2,528 | 2,952 | 3,314 | 3,192 | 39.8 | 1,536 | 1,464 | 2,498 | 2,464 | 2,484 | 61.7 |
| Pakistan | 325 | 404 | | 523 | 612 | | 830 | 733 | 1,093 | 1,135 | 1,140 | 37.3 |

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Appendix C (Continued)

| | | | In | Imports | | | | | E_{2} | Exports | | |
|--|------------------|------------------|------------------|-------------------|-------------------|--------------------------|------------------|------------------|------------------|------------------|--------|--|
| | 1986 | 1987 | 1988 | 1989 | 0661 | % Change 1990 1986-90 | 1986 | 1987 | 1988 | 1989 | 1990 | ⁷ ₀ Change 1990 1986-90 |
| Other Asia | 1,099 | 1,379 | 1,458 | 1,691 | 2,016 | 83.4 | 468 | 445 | 548 | 521 | 516 | 10.3 |
| Oceania | 3,718 | | | 5,273 | 5,772 | 55.3 | 6,659 | 6,526 | 8,243 | 9,848 | 9,972 | 49.8 |
| Australia | 2,632 | 3,007 | 3,532 | 3,900 | 4,440 | 68.7 | 5,551 | 5,495 | 6,983 | 8,348 | 8,544 | 53.9 |
| New Zealand | 983 | 1,051 | 1,183 | 1,231 | 1,224 | 24.5 | 881 | 818 | 943 | 1,118 | 1,140 | 29.4 |
| Pacific Islands | 103 | <i>LL</i> | 108 | 142 | 108 | 4.7 | 227 | 212 | 317 | 382 | 288 | 27.1 |
| Total Asía-Pacific | 67,786 | 83,202 | 94,238 | 101,274 104,580 | 104,580 | 54.3 | 35,894 | 42,042 | 59,358 | 66,874 | 70,452 | 96.3 |
| Reference Comparison | arison | | | | | | | | | | | |
| Japan | 81,911 | | 89,802 | 93,586 | | | | 28,249 | 37,732 | 44,584 | 48,588 | 80.8 |
| Canada OECD-Europe | 68,252 89,130 | 71,084 94,636 | 80,921 99,520 | 88,210 100,817 | 91,368 108,132 | 33.9 21.3 | 45,332 61,003 | 59,814 (69,090 8 | 59,233 87,187 | 78,266 99,722 | - | 83.0 84.1 |
| NOTE: Numbers may not add due to rounding. | ers may | not add | due to | rounding | | | | | | | | |

SOURCE: OECD Monthly Statistics on Trade.